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JANUARY - 1964

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PLENTY OF FREE PARKING

The Indianapolis Radio Club meets on the second and fourth Fridays of each month except July and August in the Indianapolis Park Board Building at 29th and Harding Streets. Meetings start promptly at 8 p.m. EST.

AMA-CHEWER STAFF

K9KTL	W9JJC	K9EUQ
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PRESIDENT & EDITOR	MANAGER	PUBLISHER

Ama-Chewer is published monthly by and for the I.R.C. and all amateurs in the Indianapolis area. Non-members may subscribe for \$1.00 a year.

Publication is on the third Friday of each month, with all news items and ads due no later than the first Friday of each month.

Ham Ads (5 line limit) are free to members and subscribers. Others may submit ads for 50 cents each.

Ama-Chewer welcomes the forwarding of information on coming events and activities of other clubs for publication.

Our cover attraction this month consists of the shining faces of our new officers, elected December 13. They are:

Vice-President 2nd Director 1st Director Chief Op. Secretary Treasurer

Marshall Lincoln, K9KTL Ward Studor, WA9CCX Alvey Pittman, W9JJC Jim Sugioka, W9CKB Dick Kinnett, K9VIE Jerry Lucas, W9APJ Pat Husk, K9EUQ

Top Row 1 to r: Pittman-Kinnett-Husk-Lincoln Bottom Row: Sugioka-Lucas-Studor

THE PRESIDENT'S FREQUENCY

The past year sure has gone fast, maybe because I've been busy. I've enjoyed being president of the IRC, and I hope the experience hasn't been too hard on you.

plished, I thank very much the fellow club members who have accomplished; others have not. For those which were accom-Some of the goals I had in mind when taking office have been helped. For those not accomplished, I take sole blame for not pushing hard enough in the right direction.

members who participated in club activities. Each of you have friendly, helpful spirit of the board of directors and other club the enjoyment and furtherence of amateur radio. If every club members as the IRC, amateur radio would be an even stronger given more than you received in making the IRC a worthwhile But regardless of what goals were actually reached, the excity is represented in the IRC, with a single unifying goal: part of this community. Just about every occupation in our in the land had as many active, talented and enthusiastic perience I shall always recall about the past year is the element in our society.

your new president the support you have shown me, and he'll it has been an honor and a pleasure to serve as your presi dent. Thanks to each of you for your help this year. Show be a mighty happy fellow.

向 The IRC has a chance to play an important part in an upcoming public service project which should be a lot of fun plus chance to show non-hams the value of ham radio.

buildings as an aid to pilots, is underway. The active partiorganization), the Air Route Traffic Control Association, and many of the state's cities and towns are painted on roofs of the Jaycees. In April, the Ninety-Nines will have a statewide "Air Lift" to raise money for the project by giving air-An "airmarking project," by which large signs designating cipants are the Ninety-Nines (international women's pilot plane rides in return for donations.

of the day of the air lift. Although the big day will be in April, communications between the airports involved to help the gals handled by hams before then in preparation for the main event. get their planes and pilots to the right spots at the right time The Ninety-Nines came to the IRC asking for hams to supply there will be at least one trial run, on a smaller scale, beforehand, and probably some miscellaneous traffic to be

This is too big a job for the IRC alone, but members have said Probably the bulk of the traffic will be on six and two meters, with both mobile stations and base stations all over the state of your operating interests, there's a place in this project for they'd like to take on the coordinating job as a club project. involved. Lower frequencies may also be used. Regardless

there probably will be a committee of IRC members, represent-50.55 mc. on Dec. 29 at 2:00 PM, EST. The net control staing various bands and modes, set up to handle future operation will be in Indianapolis. Later on, as plans progress, There will be a trial run, for organizational purposes, on tions.

selves in handling communications, as well as a good way to job. If we fail to do this, we'll look like a bunch of dopes in demonstrate our usefulness to the general public. We must organize well and carefully follow instructions to do a good This project should be a very good exercise for hams themthe eyes of some very capable people.

Let's all do our share for the IRC and for amateur radio.

PROGRAM REVIEW By Jerry Lucas W9APJ



November 8

After the business meeting, an open forum on Incentive Licensing was held in lieu of two previously scheduled programs, both of which had been cancelled. The meeting was heated, but very orderly-that is, right up to the closing moments, when the President found it necessary to take drastic steps to preserve the decorum of the meeting. (Note the additional masking tape on the plate glass table top next meeting. "The meeting came to a shattering climax," said Tom as he went all to pieces.)

November 22

All eligible Old Timers present were awarded their Ploneer Award ash trays. Alvey Pittman, W9JJC, MC'd the ceremonies and presented, among others, a special award to D. J. Angus, W9CYQ, in recognition of his unceasing help and service to the IRC over the years.

The program was a talk by Max Galloway, K9OXA, on "Antennas and Transmission Lines." (See picture at left)

Max first explained what an antenna was by saying that any conductor whose length is appreciable compared to a half wave length can be considered an antenna and went on to explain how velocity factor and capacitive end effect affect the actual length of the antenna.

He explained the importance of radiation resistance of an antenna and gave examples of this resistance of several antenna configurations.

Any gain derived from an antenna, we were told, is achieved by compressing the vertical pattern or narrowing the horizontal pattern.

Max then went into some detail or various matching systems, explaining delta match, gamma match, tee match, inductive coupling and a hairpin loop match. Through the courtesy of Hy Gain, he was able to show several antennas and feel lines. He explained that two wires closer together than I percent of a wavelength and fed out of phase will not radiate appreciably and may be used as a feed line. He stated the velocity factor of RG-8 is approximately .66 and that of open wire line could be as high as .98. This should be considered when determining line lengths. Max gave figures on losses due to attenuation in feed lines, starting with twin lead at 9 Db per 100 feet down to open wire at .18 Db per 100 feet.

Max noted that signal loss due to a 3:1 SWR amounts to only.

• 9Db, and that nothing can be done at the input end of a radiating system to improve the SWR. Pruning a line will help transmitter loading, and a bridge, to give a true indication, should be a half wave or multiple of a half wave length from the transmitter.

He explained how to check for sheath resonance, and cautioned to always check coax line with a dummy load before erecting an antenna. He also showed several SWR bridges and antenna phase detectors and told how to check ground resistance.

Our thanks to Max for an excellent program.

A lot of kilocycles have gone over the feedlines, so to speak, in the past year. What all happened at the IRC?

works. Other programs early in the year included a demonstra-"Challenge of the Space Age." Walt Smith, WA9BHV, gave an entertaining talk on design and operation of microwave equippresentation prepared for employees at Delco-Remy, where he udkins told us how to use solid state components in our ham year. Bob Kryter was, as usual, a fascinating speaker with given by Don Holt, W9FWH, Anderson, the SCM of Indiana. Well, the year's programs started with a talk on transistors Don's illustrated talk was an abbreviation of a much longer tion of uses of an oscilliscope by W9APJ and W9JJC. Dick

W. C. Baker, W9HX, Evansville, who went on the air in 1908 Old Timers Night really packed the halls to see "The Story of DX" from the Antique Wireless Association and hear a fascinwhen he was 11 years old had the longest history of ham serating tape-recorded visit with D. J. Angus, 9CYQ, and Nobe Watson, 9WE, on the "good old days" in Indianapolis radio. vice of all present.

patch, and then spent many busy hours organizing a successthen demonstrated the whole works in a tour of the airport the ful Field Day operation at the Friendswood Golf Course oper-Federal Aviation Agency officials from Weir Cook Airport told well attended as usual, with many bargains. Dick Kinnett, us of the workings of their many radio and radar facilities, next day. The annual club auction, a spring regular, was K9VIE, won the home brew night prize with a fancy phone ated by Jim Rees, K9YKH. Jim got some special recognition a little later when the Indiana Radio Club Council selected him as "Outstanding Amateur of the Year" for his work at the Blind School.

dios and TV transmitter, led by Bert Brouse, K9JSF. A special auction raised additional money for the club's donation to the Fall programs included a demonstration of amateur TV by Fred Manning, W9VPN, and Walt Smith, and a tour of WFBM stu-ARRL Building Fund. Added to what had been raised with the 50-50 Club, it came to an even \$100.00.

EYEBALL QSO CONTEST

ball QSLs to K9KTL immediately after Dec. 31, or bring them to dummy load -- the winner may take his choice. Send your eyefellow ham's shacks. The Eyeball QSO contest, intended to most QSLs wins a station clock, Dymo tape writer, or Heath There's still time to earn more Brownie points with visits to ham gives the visitor a QSL for the visit. The ham with the get local hams better acquainted, ends Dec. 31. The host the Jan. 10 meeting.

SUPPORT YOUR LEAGUE

The American Radio Relay League is your voice in national and international ham affairs, in addition to being an organization deserves your support. You can help support the League and save a few shekels yourself by paying your League dues at a furnishing numerous worthwhile services direct to hams. It reduced rate at the same time you pay your IRC dues.

mile QSO using an audio modulated hekium neon laser. Output Electronic Design News reports hams from Electro Optical Systems Radio Club, Pasadena, Calif., set a record with a 118the 118-mile distance. Alighment of transmitter and receiver was 125 microwatts. Beam width of the laser was 150 ft. at was done with a 6-meter system and a 300,000 CP aircraft

GRAHAMS SPECIALS OF THE MONTH

COLLINS 7581REAL CLEAN	\$425.00	
Collins KWM 2 REAL CLEAN. \$895.00	\$895.00	
SWAN SW 175	\$185.00	
Johnson Invader 200.	\$455.00	
HALLICRAFTER HT-37	\$395.00	
Hallicrafter HT 32-ACLEAN	\$450.00	
HAMMARLUND HQ 170C	\$275.00	
Central Electronics 10-A	\$ 34.50	
HALLICRAFTER SR 34AC	\$233,00	
Hallicrafter SX 101 Mark III	\$250.00	
MOSLEY CM 1 Receiver.	\$125,00	
Knight T-150 Xmtr Real Clean\$119.00		

ARRL BULLETINS

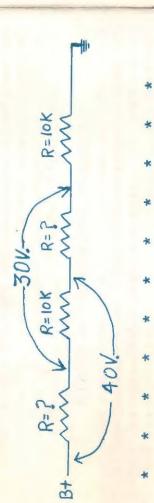
Special Bulletin Number 634 Nov. 14, 1963
Effective immediately ARRL announces the availability of extra tape sent code practice from W1AW. Speeds of 10, 13 and 15 WPM will be covered each day during the period of 0030 to 0100 GMT just preceding the 0100 GMT bulletin. The full schedule covering all code practice and bulletin periods will appear in December QST. Copies of the complete W1AW operating schedule are available upon request from the Communications Department, 225 Main Street, Newington, Conn.

Official Bulletin Number 926 Dec. 5, 1963
All amateurs planning to participate in the ARRL January VHF
Sweepstakes are reminded that log forms are available free
on request from the ARRL Communications Department. Please
specify the number of reporting sheets desired. Page 28 of
December QST gives full details on this top VHF operating
activity. Be sure you are ready to help your club compete for
the gavel in the VHF Sweepstakes, January 4 and 5.

* * * * * * * * * * *

THIS MONTH'S PUZZLE

Two known and two unkown resistors are connected in series across the output of a power supply. Voltage checks are made as indicated. What is the voltage across the supply? No pencil and paper required.



XYL CLUB

The regular monthly meeting will be Friday, Jan. 17, in the home of Mrs. D. M. Davis, 423 N. DeQuincy. Members will finish the ceramic project started at the Oct. meeting in Florence Lucas' home.

HAM SHACK VISIT



For this month's Ama-Chewer ham shack visit, we go to the home of John Jones, W9FZW, 3338 West New York.

John got his class B license in 1947 and his class A in 1950. His ham shack consists of a Viking II, HT-40 and NC-300. That's what he has on the air. Now, down in the basement is enough ham gear and test equipment to reach the E layer without even being turned on! Although his present on-the-air equipment is mostly commercial-made, John is an enthusiastic experimenter and home brewer and has the soldering iron burns to prove it. He has a home brew mobile transmitter, similar to the Palco, with a G-66 receiver in his car and has numerous portable and walkie-talkie type rigs on various bands.

John has been president, secretary, chief operator and program chairman of the IRC and is trustee and activities manager of the Central Indiana Mobile Radio Club. He is a former secretary of the Indiana Radio Club Council and was on the IRCC committee which got ham license plates approved for Indiana. He is an active member and Wednesday evening net control station operator for the Indiana Phone Net.

TWENTY YEARS AGO By Bob Caskey W9DNQ

A notice in Ama-Chewer noted that all ham transmitting gear must be registered by the owner or the one having possession of it. This was the wartime FCC requirement for ham gear not in use.

show the dubs how it was done, that he couldn't hit the broad ationing in those days.) It was said that Don Davis won in The above were active members of the 160 meter phone band were Don, Ruth and Buddy Davis, Alvey and Esther Pittman, for the most part and it was noted that not much rubber was an easy cantor at a shooting contest at the amusement park (Remember, there was tire rationing before gas Waggoners, Charlie Mitten and YF, the Geisendorffs, Tiny Webb, the Willie Keatons, and Mrs. Smoky Joe Armstrong. shooting gallery. 'Twas further said that when he tried to family, the Dickmeyers and Esther's folks, Mr. and Mrs. ack Murphy and Bobby Mueller, Fred Manning et al, the picnic was held at Forest Park, Noblesville. Attending Anderson and family, Al Titus, his wife, Hildegarde, and side of a cow. Just goes to show, pride cometh after a success and goeth ... etc. burned up.

At the above eatfest, 'twas noted that ICY (Al Titus) and YMV (LeRoy Waggoner) got behind a tree and talked WERS practically all the time except while the eating was in progress. IC and VPN took movies of practically everybody and then let them in on the secret that they didn't have any film in their cameras.

MERRY CHRISTMAS
THE SALE IS ON !!

SPLATTER

'Tis the season to be jolly, etc. 'Tis also the season when some of the ham magazines print their annual indexes. A member has suggested a good year-end activity is to go through those indexes and look up some of the articles you may have passed by when the magazine was new, but now may have new interest. It's also a good way to refresh your memory on what has happened in ham radio in the past year.

* * * * * *

OLD TIMERS, ATTENTION

There still are a few ash trays to be picked up by hams on the air in 1926 or before who attended the IRC Old Timers Night last June. W9JJC still has ash trays for W9AXH, 9CJA, W9PI, W9BZB, W9DMV, W9FKE, W9CUR, W9NPV, and W9TD. If these fellows or any of their cronies could pick up the ash trays at the next meeting, it would be appreciated. If you can't make it, call Alvey (AX 1-9252) and make arrangements to meet on a street corner sometime.

* * * * * * * * *

HAM-ADS

SX 101A new condition \$285. LA 400C linear 800 watts PEP 400 watts CW-AM \$125. Both \$375. 1200 V 500 ma power supply \$12.50. Ed Shively K9LNR WA 6-2755.

RME VHF 152A converter, converts 2, 6 and 10 meters to 40 meters, \$25. Curtis Hunter K9LVS AX 1-8513.

WANTED: to borrow..manual for HQ 140X .. W9JJC AX-1-9252

* * * * *

NEWS FLASH

Two pupils at the Blind School, Bruce LeMond, WA9CYG and Keith Reedy, WA9DRO, have received their General licenses. They had Technician licenses before, and are the first pupils to receive their General while still at the school. Congratulations, boys, on a job well done. And a tip of the hat also to the IRC members who have helped in their studies.

Chuck-K90DV

Gene - W9KJF



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